

Niall J English

List of Publications by Year in descending order

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263
papers

7,492
citations

43973

48
h-index

82410

72
g-index

266
all docs

266
docs citations

266
times ranked

6285
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine-learning-based many-body energy analysis of argon clusters: Fit for size?. <i>Chemical Physics</i> , 2022, 552, 111347.	0.9	3
2	Application of Porous Ceramics. <i>Engineering Materials</i> , 2022, , 499-537.	0.3	1
3	Characterization of Nanoporous Materials. <i>Engineering Materials</i> , 2022, , 319-351.	0.3	3
4	Electro-Oxidation Reaction of Methanol over $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+\delta}$ Ruddlesden-Popper Oxides. <i>ACS Applied Energy Materials</i> , 2022, 5, 503-515.	2.5	15
5	Effects of Externally Applied Electric Fields on the Manipulation of Solvated-Chignolin Folding: Static- versus Alternating-Field Dichotomy at Play. <i>Journal of Physical Chemistry B</i> , 2022, 126, 376-386.	1.2	4
6	A DFTB-Based Molecular Dynamics Investigation of an Explicitly Solvated Anatase Nanoparticle. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 780.	1.3	3
7	Improving Structural Stability and Anticoagulant Activity of a Thrombin Binding Aptamer by Aromatic Modifications. <i>ChemBioChem</i> , 2022, 23, .	1.3	1
8	Anti-gas hydrate surfaces: perspectives, progress and prospects. <i>Journal of Materials Chemistry A</i> , 2022, 10, 379-406.	5.2	14
9	Controlling hydrogen release from remaining-intact Clathrate hydrates by electromagnetic fields: molecular engineering via microsecond non-equilibrium molecular dynamics. <i>RSC Advances</i> , 2022, 12, 4370-4376.	1.7	4
10	Investigation of Dipolar Response of the Hydrated Hen-Egg White Lysozyme Complex under Externally Applied Electric Fields: Insights from Non-equilibrium Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2022, 126, 858-868.	1.2	4
11	Electric Field Effects on Photoelectrochemical Water Splitting: Perspectives and Outlook. <i>Energies</i> , 2022, 15, 1553.	1.6	2
12	Double Life of Methanol: Experimental Studies and Nonequilibrium Molecular-Dynamics Simulation of Methanol Effects on Methane-Hydrate Nucleation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6075-6081.	1.5	9
13	Sustainable Exploitation and Commercialization of Ultradense Nanobubbles: Reinventing Liquidity. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3383-3386.	3.2	7
14	Environmental Exploration of Ultra-Dense Nanobubbles: Rethinking Sustainability. <i>Environments - MDPI</i> , 2022, 9, 33.	1.5	8
15	Self-Diffusion of Individual Adsorbed Water Molecules at Rutile (110) and Anatase (101) TiO_2 Interfaces from Molecular Dynamics. <i>Crystals</i> , 2022, 12, 398.	1.0	2
16	Understanding Competitive Photo-Induced Molecular Oxygen Dissociation and Desorption Dynamics atop a Reduced Rutile TiO_2 (110) Surface: A Time-Domain Ab Initio Study. <i>ACS Catalysis</i> , 2022, 12, 6702-6711.	5.5	13
17	Thermodynamic evaluation of inhibitors for methane-hydrate formation. <i>Fuel</i> , 2022, 324, 124672.	3.4	7
18	Systematic Design-of-Experiments, factorial-design approaches for tuning simple empirical water models. <i>Molecular Simulation</i> , 2021, 47, 119-130.	0.9	1

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19	Diverse morphologies of zinc oxide nanoparticles and their electrocatalytic performance in hydrogen production. <i>Journal of Energy Chemistry</i> , 2021, 56, 162-170.	7.1	18
20	Influence of external static and alternating electric fields on self-diffusion of water from molecular dynamics. <i>Journal of Molecular Liquids</i> , 2021, 327, 114788.	2.3	12
21	A Review of Reactor Designs for Hydrogen Storage in Clathrate Hydrates. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 469.	1.3	13
22	Molecular Simulation of Crystallisation in External Electric Fields: A Review. <i>Crystals</i> , 2021, 11, 316.	1.0	3
23	Hydrogen and Deuterium Molecular Escape from Clathrate Hydrates: "Leaky" Microsecond-Molecular-Dynamics Predictions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8430-8439.	1.5	4
24	A comprehensive review on the application of aerogels in CO ₂ -adsorption: Materials and characterisation. <i>Chemical Engineering Journal</i> , 2021, 412, 128604.	6.6	92
25	Power-to-X: Lighting the Path to a Net-Zero-Emission Future. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7179-7181.	3.2	39
26	Structural and Electronic Properties of MgO/TiO ₂ Interfaces: A First-Principles Molecular-Simulation Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10795-10802.	1.5	2
27	Water Breakup at Fe ₂ O ₃ "Hematite/Water Interfaces: Influence of External Electric Fields from Nonequilibrium Ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6818-6826.	2.1	9
28	Donor-acceptor structure and dynamics: Molecular dynamics simulation study of TIP4P/2005 water model. <i>Chemical Physics Letters</i> , 2021, 775, 138581.	1.2	0
29	Electric-field-promoted photo-electrochemical production of hydrogen from water splitting. <i>Journal of Molecular Liquids</i> , 2021, 342, 116949.	2.3	11
30	The Importance of Precursors and Modification Groups of Aerogels in CO ₂ Capture. <i>Molecules</i> , 2021, 26, 5023.	1.7	12
31	In Situ Synchrotron X-ray Diffraction Studies of Hydrogen-Desorption Properties of 2LiBH ₄ "Mg ₂ FeH ₆ Composite. <i>Molecules</i> , 2021, 26, 4853.	1.7	0
32	Magnetic ferrite/carbonized cotton fiber composites for improving electromagnetic absorption properties at gigahertz frequencies. <i>Journal of Materials Science and Technology</i> , 2021, 86, 127-138.	5.6	29
33	Oxygen-evolution reactions (OER) on transition-metal-doped Fe ₃ Co(PO ₄) ₄ iron-phosphate surfaces: a first-principles study. <i>Catalysis Science and Technology</i> , 2021, 11, 4619-4626.	2.1	4
34	Hydrogen Inter-Cage Hopping and Cage Occupancies inside Hydrogen Hydrate: Molecular-Dynamics Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 282.	1.3	10
35	A C ₃ -symmetric twisted organic salt as an efficient mechano-/thermo-responsive molecule: a reusable and sensitive fluorescent thermometer. <i>Chemical Communications</i> , 2021, 57, 12321-12324.	2.2	6
36	Dielectric properties of ice VII under the influence of time-alternating external electric fields. <i>Physical Chemistry Chemical Physics</i> , 2021, , .	1.3	1

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37	Density of Phonon States in Cubic Ice Ic. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23533-23538.	1.5	4
38	Microbial stabilisation and kinetic enhancement of marine methane hydrates in both deionised- and sea-water. <i>Petroleum</i> , 2021, , .	1.3	1
39	Crystallisation competition between cubic and hexagonal ice structures: molecular-dynamics insight. <i>Molecular Simulation</i> , 2021, 47, 18-26.	0.9	3
40	Intra-Cage Structure, Vibrations and Tetrahedral-Site Hopping of H ₂ and D ₂ in Doubly-Occupied 51264 Cages in sII Clathrate Hydrates from Path-Integral and Classical Molecular Dynamics. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 54.	1.3	3
41	Onset of anharmonicity and thermal conductivity in SnSe. <i>Physical Review B</i> , 2021, 104, .	1.1	5
42	Molecular Simulation of External Electric Fields on the Crystal State: A Perspective. <i>Crystals</i> , 2021, 11, 1405.	1.0	0
43	Unraveling Adhesion Strength between Gas Hydrate and Solid Surfaces. <i>Langmuir</i> , 2021, 37, 13873-13881.	1.6	14
44	Novel Superstructure-Phase Two-Dimensional Material 1T-VSe ₂ at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 380-386.	2.1	17
45	Microbial Stabilization and Kinetic Enhancement of Marine Methane Hydrates. <i>Geomicrobiology Journal</i> , 2020, 37, 279-286.	1.0	5
46	Infrared spectra and density of states at the interface between water and protein: Insights from classical molecular dynamics. <i>Chemical Physics Letters</i> , 2020, 757, 137867.	1.2	3
47	Kinetic study on electro-nucleation of water in a heterogeneous propane nano-bubble system to form polycrystalline ice Ic. <i>Journal of Chemical Physics</i> , 2020, 153, 084501.	1.2	4
48	Magnetic-Field Manipulation of Naturally Occurring Microbial Chiral Peptides to Regulate Gas-Hydrate Formation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9079-9085.	2.1	6
49	Self-ordering water molecules at TiO ₂ interfaces: Advances in structural classification. <i>Journal of Chemical Physics</i> , 2020, 153, 064502.	1.2	7
50	Hydrogen Storage in Propane-Hydrate: Theoretical and Experimental Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8962.	1.3	6
51	Hydrogen Intramolecular Stretch Redshift in the Electrostatic Environment of Type II Clathrate Hydrates from Schrödinger Equation Treatment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8504.	1.3	1
52	Thermal Conductivity of High-Temperature Phases of Cu ₂ S from Ab Initio Molecular Dynamics: Advent of Lattice-Site Hopping. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12318-12323.	1.5	0
53	Temperature-dependent kinetic pathways featuring distinctive thermal-activation mechanisms in structural evolution of ice VII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15437-15442.	3.3	9
54	Gas hydrates in sustainable chemistry. <i>Chemical Society Reviews</i> , 2020, 49, 5225-5309.	18.7	443

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55	Engineering Peptides to Catalyze and Control Stabilization of Gas Hydrates: Learning From Nature. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5068-5075.	2.1	11
56	Dynamical properties of organo lead-halide perovskites and their interfaces to titania: insights from Density Functional Theory. <i>Heliyon</i> , 2020, 6, e03427.	1.4	4
57	Dynamical and structural properties of adsorbed water molecules at the TiO ₂ rutile-(110) surface: interfacial hydrogen bonding probed by ab-initio molecular dynamics. <i>Molecular Physics</i> , 2020, 118, e1725166.	0.8	4
58	In Situ Formation of Metal Hydrides Inside Carbon Aerogel Frameworks for Hydrogen Storage Applications. <i>Journal of Carbon Research</i> , 2020, 6, 38.	1.4	3
59	Dynamical and structural properties of adsorbed water molecules at the TiO ₂ anatase-(100) surface: Importance of interfacial hydrogen-bond rearrangements. <i>Chemical Physics Letters</i> , 2020, 743, 137164.	1.2	6
60	Stability-Ranking of Crystalline Ice Polymorphs Using Density-Functional Theory. <i>Crystals</i> , 2020, 10, 40.	1.0	2
61	Relaxation dynamics and power spectra of liquid water: a molecular dynamics simulation study. <i>Molecular Physics</i> , 2020, 118, e1733117.	0.8	0
62	First-principles studies on Fe ₂ O ₃ surface slabs and mechanistic elucidation of a g-C ₃ N ₄ /Fe ₂ O ₃ heterojunction. <i>Catalysis Science and Technology</i> , 2020, 10, 1376-1384.	2.1	20
63	First-principles study of the structural, electronic, magnetic properties of orthorhombic PrCuO ₃ perovskites. <i>Chemical Physics Letters</i> , 2020, 743, 137166.	1.2	2
64	Massive generation of metastable bulk nanobubbles in water by external electric fields. <i>Science Advances</i> , 2020, 6, eaaz0094.	4.7	72
65	Triplet Harvesting Using Two-Photon Absorption in Substituted Naphthalimides for Their Application as Heavy-Atom-Free Photosensitizers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8178-8185.	1.5	22
66	Possibility of realizing superionic ice VII in external electric fields of planetary bodies. <i>Science Advances</i> , 2020, 6, eaaz2915.	4.7	18
67	A New Relatively Simple Approach to Multipole Interactions in Either Spherical Harmonics or Cartesians, Suitable for Implementation into Ewald Sums. <i>International Journal of Molecular Sciences</i> , 2020, 21, 277.	1.8	6
68	Vibrational Spectra of a N719-Chromophore/Titania Interface from Empirical-Potential Molecular-Dynamics Simulation, Solvated by a Room Temperature Ionic Liquid. <i>Journal of Visualized Experiments</i> , 2020, .	0.2	0
69	Classical and path-integral molecular-dynamics study on liquid water and ice melting using non-empirical TTM2.1-F model. <i>Molecular Physics</i> , 2019, 117, 3241-3253.	0.8	1
70	Opto-electronic properties of stable blue photosensitisers on a TiO ₂ anatase-101 surface for efficient dye-sensitised solar cells. <i>Chemical Physics Letters</i> , 2019, 731, 136624.	1.2	15
71	Hybrid versus global thermostatting in molecular-dynamics simulation of methane-hydrate crystallisation. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2180-2188.	1.7	3
72	Acoustic-propagation properties of methane clathrate hydrates from non-equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2019, 151, 144505.	1.2	8

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73	Electric-Field Control of Neon Uptake and Release to and from Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27554-27560.	1.5	10
74	Atmospheric oxidation mechanism and kinetics of 2-bromo-4,6-dinitroaniline by OH radicals – a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21109-21127.	1.3	0
75	Magnetic-field effects on methane-hydrate kinetics and potential geophysical implications: Insights from non-equilibrium molecular dynamics. <i>Science of the Total Environment</i> , 2019, 661, 664-669.	3.9	8
76	Controlling ionic conductivity through transprotein electropores in human aquaporin 4: a non-equilibrium molecular-dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3339-3346.	1.3	15
77	Hydrogen-/propane-hydrate decomposition: thermodynamic and kinetic analysis. <i>Molecular Physics</i> , 2019, 117, 2434-2442.	0.8	9
78	Crystal Structure Prediction via Basin-Hopping Global Optimization Employing Tiny Periodic Simulation Cells, with Application to Water–Ice. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3889-3900.	2.3	13
79	Orientational and Folding Thermodynamics via Electric Dipole Moment Restraining. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2599-2608.	1.2	5
80	Mechanisms of Iodide–Triiodide Exchange Reactions in Ionic Liquids: A Reactive Molecular-Dynamics Exploration. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1123.	1.8	5
81	Amplitude effects on seismic velocities: How low can we go?. <i>Journal of Chemical Physics</i> , 2019, 150, 084101.	1.2	1
82	Ionic conductivity along transmembrane-electropores in human aquaporin 4: calcium effects from non-equilibrium molecular dynamics. <i>Molecular Physics</i> , 2019, 117, 3783-3790.	0.8	3
83	Electro-nucleation of water nano-droplets in No Man's Land to fault-free ice $I_{c/c}$. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8042-8053.	1.3	17
84	Electro-suppression of water nano-droplets' solidification in no man's land: Electromagnetic fields' entropic trapping of supercooled water. <i>Journal of Chemical Physics</i> , 2018, 148, 044503.	1.2	6
85	Elastic Characterization of S - and P -Wave Velocities in Marinelike Silica: The Role of Nonequilibrium Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3006-3013.	1.5	2
86	Study of hydrogen-molecule guests in type II clathrate hydrates using a force-matched potential model parameterised from ab initio molecular dynamics. <i>Journal of Chemical Physics</i> , 2018, 148, 102323.	1.2	18
87	Silicon-bridged triphenylamine-based organic dyes for efficient dye-sensitised solar cells. <i>Solar Energy</i> , 2018, 160, 64-75.	2.9	18
88	Thermal Conductivity of Solids from First-Principles Molecular Dynamics Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10682-10690.	1.5	16
89	Molecular Dynamics Study of Propane Hydrate Dissociation: Nonequilibrium Analysis in Externally Applied Electric Fields. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7504-7515.	1.5	31
90	Molecular-dynamics study of propane-hydrate dissociation: Fluctuation-dissipation and non-equilibrium analysis. <i>Journal of Chemical Physics</i> , 2018, 148, 114504.	1.2	25

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91	A systematic study via ab-initio MD of the effect solvation by room temperature ionic liquid has on the structure of a chromophore-titania interface. <i>Computational Materials Science</i> , 2018, 141, 193-206.	1.4	4
92	System-density fluctuations and electro-dissociation of methane clathrate hydrates in externally-applied static electric fields. <i>Journal of Chemical Thermodynamics</i> , 2018, 117, 68-80.	1.0	30
93	Vibrational Study of Iodide-Based Room-Temperature Ionic-Liquid Effects on Candidate N719-Chromophore/Titania Interfaces for Dye-Sensitised Solar-Cell Applications from Ab-Initio Based Molecular-Dynamics Simulation. <i>Energies</i> , 2018, 11, 2570.	1.6	2
94	Ab Initio Molecular Dynamics Studies of the Effect of Solvation by Room-Temperature Ionic Liquids on the Vibrational Properties of a N719-Chromophore/Titania Interface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26464-26471.	1.5	3
95	Transprotein-Electropore Characterization: A Molecular Dynamics Investigation on Human AQP4. <i>ACS Omega</i> , 2018, 3, 15361-15369.	1.6	20
96	Human aquaporin 4 gating dynamics under axially oriented electric-field impulses: A non-equilibrium molecular-dynamics study. <i>Journal of Chemical Physics</i> , 2018, 149, 245102.	1.2	23
97	Does Local Structure Bias How a Crystal Nucleus Evolves?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6991-6998.	2.1	19
98	Vibrational, energetic-dynamical and dissociation properties of water clusters in static electric fields: Non-equilibrium molecular-dynamics insights. <i>Chemical Physics Letters</i> , 2018, 710, 207-214.	1.2	7
99	Non-equilibrium molecular-dynamics study of electromagnetic-field-induced propane-hydrate dissociation. <i>Journal of Chemical Physics</i> , 2018, 149, 124702.	1.2	20
100	Pressure-Induced Densification of Ice I _h under Triaxial Mechanical Compression: Dissociation versus Retention of Crystallinity for Intermediate States in Atomistic and Coarse-Grained Water Models. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5267-5274.	2.1	7
101	Elucidating mysteries of phase-segregated membranes: mobile-lipid recruitment facilitates pores™ passage to the fluid phase. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19234-19239.	1.3	4
102	Pressure dependence of structural properties of ice VII: An <i>ab initio</i> molecular-dynamics study. <i>Journal of Chemical Physics</i> , 2018, 148, 204505.	1.2	7
103	Tweaking the Electronic and Optical Properties of \pm -MoO ₃ by Sulphur and Selenium Doping – a Density Functional Theory Study. <i>Scientific Reports</i> , 2018, 8, 10144.	1.6	25
104	Formation and properties of water from quartz and hydrogen at high pressure and temperature. <i>Earth and Planetary Science Letters</i> , 2017, 461, 54-60.	1.8	13
105	Vibrational Modes of Hydrogen Hydrates: A First-Principles Molecular Dynamics and Raman Spectra Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3690-3696.	1.5	29
106	Hydrogen-bond dynamics at the bio™water interface in hydrated proteins: a molecular-dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 318-329.	1.3	28
107	On the Mechanism of the Iodide™Triiodide Exchange Reaction in a Solid-State Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6436-6441.	1.2	8
108	Ice-Amorphization of Supercooled Water Nanodroplets in No Man™s Land. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 187-196.	1.2	11

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109	Exploring Rutile (110) and Anatase (101) TiO ₂ Water Interfaces by Reactive Force-Field Simulations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6701-6711.	1.5	41
110	Quantum and classical inter-cage hopping of hydrogen molecules in clathrate hydrate: temperature and cage-occupation effects. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 717-728.	1.3	28
111	Mechanisms and Nucleation Rate of Methane Hydrate by Dynamical Nonequilibrium Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24223-24234.	1.5	30
112	Electropumping of Water Through Human Aquaporin 4 by Circularly Polarized Electric Fields: Dramatic Enhancement and Control Revealed by Non-Equilibrium Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4646-4651.	2.1	11
113	Global-density fluctuations in methane clathrate hydrates in externally applied electromagnetic fields. <i>Journal of Chemical Physics</i> , 2017, 147, 024506.	1.2	22
114	Communication: Influence of external static and alternating electric fields on water from long-time non-equilibrium <i>ab initio</i> molecular dynamics. <i>Journal of Chemical Physics</i> , 2017, 147, 031102.	1.2	57
115	optPBE-vdW density functional theory study of liquid water and pressure-induced structural evolution in ice Ih. <i>Canadian Journal of Chemistry</i> , 2017, 95, 1205-1211.	0.6	6
116	Equilibrium Born-Oppenheimer molecular-dynamics exploration of the lattice thermal conductivity of silicon clathrates. <i>Computational Materials Science</i> , 2017, 126, 1-6.	1.4	9
117	Understanding the interface between silicon-based materials and water: Molecular-dynamics exploration of infrared spectra. <i>AIP Advances</i> , 2017, 7, .	0.6	20
118	Exploring Promising Catalysts for Chemical Hydrogen Storage in Ammonia Borane: A Density Functional Theory Study. <i>Catalysts</i> , 2017, 7, 140.	1.6	11
119	Organic Dyes Containing Coplanar Dihexyl-Substituted Dithienosilole Groups for Efficient Dye-Sensitised Solar Cells. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-14.	1.4	8
120	Dynamics of hydrogen guests in ice XVII nanopores. <i>Physical Review Materials</i> , 2017, 1, .	0.9	9
121	Human Aquaporin 4 Gating Dynamics under Perpendicularly-Oriented Electric-Field Impulses: A Molecular Dynamics Study. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1133.	1.8	22
122	Diffusivity and Mobility of Adsorbed Water Layers at TiO ₂ Rutile and Anatase Interfaces. <i>Crystals</i> , 2016, 6, 1.	1.0	72
123	Near-microsecond human aquaporin 4 gating dynamics in static and alternating external electric fields: Non-equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2016, 145, 085102.	1.2	13
124	Perturbation of hydration layer in solvated proteins by external electric and electromagnetic fields: Insights from non-equilibrium molecular dynamics. <i>Journal of Chemical Physics</i> , 2016, 145, 205101.	1.2	10
125	Study of clathrate hydrates via equilibrium molecular-dynamics simulation employing polarisable and non-polarisable, rigid and flexible water models. <i>Journal of Chemical Physics</i> , 2016, 144, 164503.	1.2	25
126	Electromagnetic-field effects on structure and dynamics of amyloidogenic peptides. <i>Journal of Chemical Physics</i> , 2016, 144, 085101.	1.2	46

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127	Oscillating electric-field effects on adsorbed-water at rutile- and anatase-TiO ₂ surfaces. Journal of Chemical Physics, 2016, 145, 204706.	1.2	18
128	Electric-Field Effects on Adsorbed-Water Structural and Dynamical Properties at Rutile- and Anatase-TiO ₂ Surfaces. Journal of Physical Chemistry C, 2016, 120, 19603-19612.	1.5	42
129	Free-Energy Calculations of the Intercage Hopping Barriers of Hydrogen Molecules in Clathrate Hydrates. Journal of Physical Chemistry C, 2016, 120, 16561-16567.	1.5	40
130	Role of Hydration Layer in Dynamical Transition in Proteins: Insights from Translational Self-Diffusivity. Journal of Physical Chemistry B, 2016, 120, 12031-12039.	1.2	14
131	Time-dependent density fluctuations in liquid water. Chemical Physics Letters, 2016, 649, 119-122.	1.2	2
132	Structural and dynamical properties of methane clathrate hydrates from molecular dynamics: Comparison of atomistic and more coarse-grained potential models. Fluid Phase Equilibria, 2016, 413, 235-241.	1.4	8
133	Dispersion and Solvation Effects on the Structure and Dynamics of N719 Adsorbed to Anatase Titania (101) Surfaces in Room-Temperature Ionic Liquids: An <i>ab Initio</i> Molecular Simulation Study. Journal of Physical Chemistry C, 2016, 120, 21-30.	1.5	9
134	Verhulst and stochastic models for comparing mechanisms of MAb productivity in six CHO cell lines. Cytotechnology, 2016, 68, 1499-1511.	0.7	2
135	Distortion induced magnetic phase transition in cubic BaFeO ₃ . Journal of Magnetism and Magnetic Materials, 2016, 401, 1097-1105.	1.0	7
136	Communication: Librational dynamics in water, sl and sll clathrate hydrates, and ice Ih: Molecular-dynamics insights. Journal of Chemical Physics, 2016, 144, 051101.	1.2	13
137	Massively parallel molecular dynamics simulation of formation of ice-crystallite precursors in supercooled water: Incipient-nucleation behavior and role of system size. Physical Review E, 2015, 92, 032132.	0.8	13
138	Hydrogen-bond vibrational and energetic dynamical properties in sl and sll clathrate hydrates and in ice Ih: Molecular dynamics insights. Journal of Chemical Physics, 2015, 143, 154504.	1.2	7
139	Structural Properties of Liquid Water and Ice Ih from Ab-Initio Molecular Dynamics with a Non-Local Correlation Functional. Energies, 2015, 8, 9383-9391.	1.6	20
140	Electric field-controlled semiconductor nanorod assembly in solution: mechanistic insights from non-equilibrium molecular dynamics. Canadian Journal of Chemistry, 2015, 93, 888-890.	0.6	2
141	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. Nature Communications, 2015, 6, 10140.	5.8	30
142	Photophysics, photochemistry and thermal stability of diarylethene-containing benzothiazolium species. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 301, 20-31.	2.0	5
143	Modelling of Mammalian Cell Cultures. Cell Engineering, 2015, , 259-326.	0.4	9
144	Prediction of Henry's Law Constants via group-specific quantitative structure property relationships. Chemosphere, 2015, 127, 1-9.	4.2	12

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145	Communication: Influence of nanosecond-pulsed electric fields on water and its subsequent relaxation: Dipolar effects and debunking memory. <i>Journal of Chemical Physics</i> , 2015, 142, 141101.	1.2	23
146	Perspectives on external electric fields in molecular simulation: progress, prospects and challenges. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12407-12440.	1.3	202
147	Clathrate structure-type recognition: Application to hydrate nucleation and crystallisation. <i>Journal of Chemical Physics</i> , 2015, 142, 244503.	1.2	33
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